

Supplemental Material

Polymorphisms in Arsenic(+III)methyltransferase (*AS3MT*) Predict Gene Expression of *AS3MT* as well as Arsenic Metabolism

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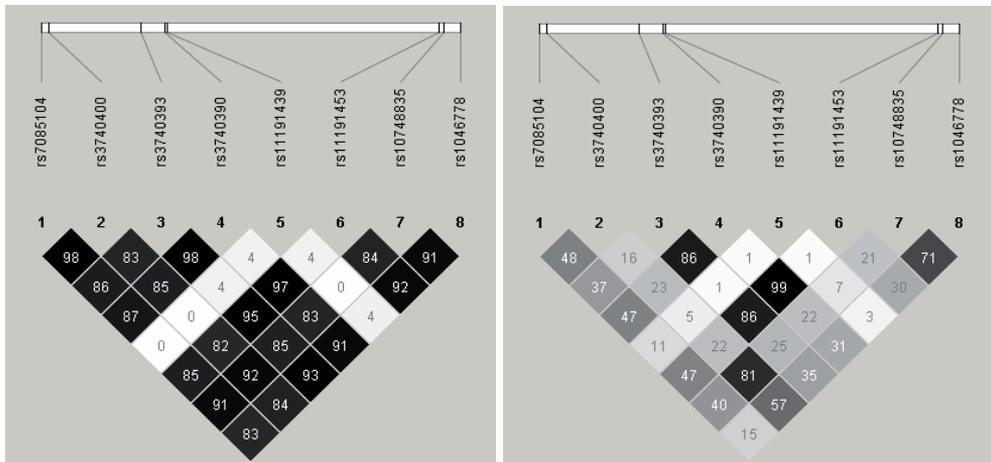
Supplemental Material, Table 1. Genes and polymorphisms that were successfully genotyped.

Gene	Rs nr ^a	Polymorphism type ^b	Allele frequencies	
			Argentina	Bangladesh
<i>AS3MT</i>	rs7085104	Intron g. A>G	27/73	71/29
<i>AS3MT</i>	rs3740400	Intron g. A>C	27/73	55/45
<i>AS3MT</i>	rs3740393	Intron g. C>G	70/30	18/82
<i>AS3MT</i>	rs3740390	Intron g. G>A	30/70	84/16
<i>AS3MT</i>	rs11191439	M287T g. T>C	98/2	94/6
<i>AS3MT</i>	rs11191453	Intron g. T>C	31/69	84/16
<i>AS3MT</i>	rs10748835	Intron g. A>G	73/27	46/54
<i>AS3MT</i>	rs1046778	3' UTR g. T>C	29/71	62/38
<i>DNMT1a</i>	rs10854076	Intron g. G>C	65/35	77/23
<i>DNMT1a</i>	rs2228611	P447P g. A>G	60/40	44/56
<i>DNMT1a</i>	rs2228612	I311V g. A>G	69/31	77/23
<i>DNMT1a</i>	rs16999593	H97R g. T>C	96/4	98/2
<i>DNMT1a</i>	rs7253062	Intron g. G>A	91/9	68/32
<i>DNMT3b</i>	rs6087990	5' near gene g. T>C	6/94	30/70
<i>DNMT3b</i>	rs2424913	Intron g. C>T	5/95	26/74
<i>DNMT3b</i>	rs2424932	3' UTR g. G>A	94/6	79/21
<i>BHMT</i>	rs585800	3' UTR g. A>T	97/3	88/12
<i>BHMT</i>	rs3733890	R239Q g. G>A	52/48	69/31
<i>PEMT</i>	rs897453	V58I g. G>A	91/9	83/17
<i>PEMT</i>	rs1531100	Intron g. C>T	70/30	68/32
<i>PEMT</i>	rs4244598	Intron g. G>A	30/70	40/60
<i>PEMT</i>	rs2278952	5' UTR g. C>T	98/2	90/10

Abbreviation: Rs; Reference SNP ID

^a Rs numbers from NCBI SNP Database (NCBI, 2010).

^b When applicable, amino acid position/gene region is denoted. Ancestral allele, according to NCBI SNP Database (NCBI, 2010) is denoted first when known.



Supplemental Material, Figure 1. LD-values (R^2) for *AS3MT* polymorphisms in the Argentinian population to the left and in the Bangladeshi population to the right.

References

NCBI. 2010. SNP Database. Available: <http://www.ncbi.nlm.nih.gov/projects/SNP/> [accessed 11 May 2010].